

PUBLIC HEARING FOR SIX AOCs

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In Re: Public Hearing for Six AOC's:

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Public Hearing for Six AOC's

Mashpee High School

Mashpee, MA 02649

December 2, 1997

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A T T E N D E E S

- 1
- 2
- 3 Jerry Whitaker AFCEE/MMR
- 4 Lee Perry AFCEE/MMR
- 5 Chuck Rossoll ABB-ES
- 6 Stanley Reed ABB-ES
- 7 Walter Zorn HAZWRAP
- 8 Jim Snyder AFCEE/MMR
- 9 Cathy Kiley MADEP
- 10 David Dow Sierra Club
- 11 Deena Despault 713 Old Barnstable Road
- 12 Paul Rossi 713 Old Barnstable Road
- 13 C. Gray Wolf P.O. Box 1547, Mashpee
- 14 Carol Keating EPA
- 15 Philip Elia 49 Pond Circle, Mashpee
- 16 Kathleen Elia 49 Pond Circle, Mashpee
- 17 Sara Corner OpTech
- 18 Jon Luther OpTech
- 19 Diane Bryant OpTech
- 20 Greg Taylor Mashpee DPW
- 21 John Palmieri Mashpee
- 22
- 23
- 24
- 25



P R O C E E D I N G S

(December 2, 1997, 8:13 p.m.)

MR. WHITAKER: Okay. I'm going to be starting off the formal public hearing by reading a statement. It should take about four or five minutes.

After that I'll be asking you to come to the microphone, state your name and the town you're from and let us know what your concerns are.

So with that I'd like to start the public hearing. Good evening. My name is Jerry Whitaker and I'm a public affairs specialist for the Installation Restoration Program at the Massachusetts Military Reservation.

I will be the Hearing Officer this evening.

The purpose of tonight's hearing is to accept oral comments, oral testimony and written comments on the Proposed Plan to clean up six areas of contamination at the Massachusetts Military Reservation.

The six areas of contamination are comprised of 13 separate sites that have been grouped into six operable units. These sites are: Fire fighter training Area 2 and Landfill 2.



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1 The petroleum fuel storage area, which
2 consists of fuel spills 10 and 11.

3 Storm drain 2 and fuel spills 6 and 8.

4 Storm drain 3, fire fighter training area 3
5 and coal yard 4.

6 Storm drain 4 and storm drain 5. And fuel
7 spill 5.

8 Earlier this evening you heard a synopsis
9 of our plans to clean these sites. On November 13th
10 we began a 30-day formal public comments period to
11 solicit public input on the Proposed Plan to clean
12 these sites.

13 This public comment period ends on
14 December 15th. Tonight the Air Force Center for
15 Environmental Excellence is hosting a public hearing
16 which is being transcribed.

17 All comments and testimony that are given
18 here tonight will be transcribed verbatim and become
19 part of the official record on this project.

20 Each and every comment will be responded to
21 in the form of a Responsiveness Summary. This
22 document categorizes and summarizes all of the
23 comments we receive through the duration of the
24 public comment period.

25 The Responsiveness Summary will be part of

1 the Record of Decision, or ROD as it's commonly
2 called, that will be issued at a later date.

3 The ROD specifies the actions to be taken
4 to clean the sites and is signed by the parties to
5 the Federal Facilities Agreement. These parties
6 include the Air Force Center for Environmental
7 Excellence and the U.S. Environmental Protection
8 Agency.

9 There are copies of the Proposed Plan
10 located outside in the hallway as well as up here on
11 the table.

12 In addition, when the transcript of
13 tonight's meeting is finalized, it will be placed
14 into the main libraries of Falmouth, Mashpee,
15 Sandwich, Bourne, and the on-base U.S. Coast Guard
16 library. The Proposed Plan is also on file in those
17 libraries.

18 Tonight's hearing is different than the
19 informational meeting held earlier this evening.
20 Public meetings are interactive. A public meeting is
21 exclusively an opportunity for the Air Force Center
22 for Environmental Excellence, the U.S. Environmental
23 Protection Agency and the Massachusetts Department of
24 Environmental Protection to receive your oral
25 comments. We will not be responding to your comments

1 during the hearing.

2 Everyone who wishes to submit oral comments
3 must speak into the microphone. Please state your
4 first and last name and town of residence.

5 As I mentioned earlier, the comments
6 submitted tonight will be responded to in the
7 Responsiveness Summary.

8 Written comments can be given to me any
9 time tonight or through December 15th. If mailing
10 comments, please ensure that the envelope is
11 postmarked by December 15th and mailed to the proper
12 address.

13 I've included a handout which is located in
14 the hallway with a property mailing address as well
15 as our fax number, my e-mail address and the
16 Massachusetts Military Reservation Installation
17 Restoration Program web site for those of you who
18 would like to submit comments through those
19 channels.

20 It's now time to open the official record
21 for oral comment on the Proposed Plan to clean up six
22 areas of contamination at the Massachusetts Military
23 Reservation.

24 Please keep your comments exclusively to
25 this Proposed Plan.

1 If you have questions about other issues, I
2 would ask that you approach me after the hearing is
3 over or at a later date.

4 During any of the comments you make, we may
5 ask for clarification if we don't understand what the
6 comment is.

7 That is the only interaction that we will
8 have until the official record is closed.

9 With that said, the floor is open for oral
10 comments. If anyone has any comments, please step up
11 to the microphone, give us your name, the town you
12 reside and then your comments.

13 MR. PALMIERI: My name is John Palmieri,
14 town of Mashpee. I'd like to make a couple of
15 comments relative to excavation and asphalt batching
16 that's been proposed for this area.

17 First of all, I'm concerned about the PCB's
18 that have been found in at least two locations in the
19 soil. As everything I understand about PCB's is that
20 it's a very stable compound and does not break down
21 easily.

22 I'm concerned that by imbedding it in the
23 asphalt is not a complete solution. I believe in
24 time the asphalt may actually break down and the
25 PCB's may still remain and are subject to further

1 leaching into the ground.

2 I'd recommend that you consider an
3 alternate by gathering the PCB contaminations and
4 removing it completely from the base and obviously
5 away from the aquifer.

6 The second comment would be relative to
7 where you're placing the asphalt batching.

8 I'd suggest you consider a proposal to
9 monitor the whole process, after, long after you put
10 it in the soil, you never know if it might leach
11 again.

12 Although you believe it is a consistent
13 process, I'd be concerned about batch-to-batch
14 day-to-day processing of this material.

15 You might have break down and not even be
16 aware of it during your processing.

17 And I'd suggest rather than putting it on
18 the roads which would spread it across the entire
19 base, you localize it in one spot, and furthermore
20 you put monitors in the ground before you put this
21 material down and that these monitors then could be
22 used to monitor subsequent leaching five, 10, 20, 50
23 years down the road to see that the material is there
24 and is not leaking into the aquifer. Thank you.

25 MR. WHITAKER: Thank you, John. Any other

1 comments?

2 MR. TAYLOR: My name is Greg Taylor from
3 the town of Mashpee.

4 First initial comments related to all six
5 areas is that it appears that in an effort to
6 simplify the plan for public consumption AFCEE has
7 stripped the document that they've provided us of the
8 necessary details in order to make an informed
9 decision on any of the actions that are going on.

10 My questions on each one will relate in
11 part to the information that isn't readily available
12 without somehow finding other documents to go
13 through.

14 It's also disturbing to see that in each of
15 the six areas, AOC's, that AFCEE has dismissed the
16 existing ecological assessment because it's too
17 conservative. If the ERA was done correctly the
18 first time or wasn't done correctly the first time
19 then it should be done again.

20 On the AOC FTA-2/LF-2, please identify the
21 primary chemicals of concern for this site. Please
22 identify the quote "several chemicals" with the
23 potential to migrate to groundwater where identified
24 were above threshold concentrations, and please
25 provide their concentrations.

1 Please identify the inorganic and fuel
2 related COC's encountered in the groundwater.

3 Please provide the SERGOU clean up plan and
4 explain how the contaminated groundwater associated
5 with this site is addressed in that plan.

6 What is the depth to groundwater at this
7 site?

8 What subsurface soils are contributing to
9 the groundwater contamination above or below the
10 groundwater table of both? There's only discussion
11 about in or above the groundwater table. Aren't
12 these contaminants underneath the groundwater also?

13 Please provide a conceptual layout of the
14 biosparging that's proposed in this area.

15 Please define what AFCEE intends to do to
16 assure that quote "a prudent design" end quote will
17 minimize interactions in the two systems. The second
18 area SD-2, FS-6 and FS-8, please provide a summary of
19 the COC's and the range of concentrations in this
20 area.

21 What is AFCEE's point in discussing average
22 quote "average" end quote site concentrations versus
23 maximum concentrations along the drainage ditch?

24 What are the COC's creating the
25 unacceptable risk? How many sample locations are

1 there in the ditch? And over what total length?

2 What are the COC's driving the adverse
3 ecological risk in the ditch?

4 What are the receptors, the ecological
5 receptors?

6 What does AFCEE mean by quote "non-site
7 related groundwater" end quote contamination beneath
8 the AOC?

9 And please explain the preferred
10 alternative, how it addresses the concerns of
11 contamination encountered and treats the contaminants
12 so that they will not pose a future risk.

13 Third area AOC SD-3/FTA-3/CY-4. We had
14 some information -- I'd like to once again ask why
15 doesn't the Department of Defense know that the
16 earlier work on this site removed all of the ash?

17 Is there a post-excavation report
18 documenting this? What leads us to believe that
19 additional work needs to be done here?

20 Is there an ecological risk here or not?
21 There's said to be a potential one still. How are we
22 resolving that with enough secondary testing to
23 assure that we haven't missed something? It appears
24 that in the closure something was missed. And now
25 how do we know we're not missing something again?

1 In the AOC SD-4 what are the fuel-related
2 inorganic and inorganic COC's in this --
3 concentrations in this medium?

4 Once again the plan indicates that average
5 contaminated concentrations did not result in adverse
6 health risk.

7 Did the maximum concentrations exceed
8 levels for human health risk? If so, what were the
9 compounds and what were the concentrations? Is there
10 an adverse ecological risk associated with this AOC?

11 Once again AFCEE essentially dismisses the
12 value of the ecological risk assessment because of
13 quote "conservative assumptions" end quote during
14 calculations. If this was not a reasonable
15 ecological risk assessment then one should be done.
16 Why hasn't one been done that's acceptable?

17 There should be a site plan that shows in
18 better detail the excavation that's being intended in
19 this area. On the AOC SD-5 and FS-5, once again the
20 discussion on human risk associated with this AOC is
21 confusing. In fact, it's misleading.

22 The first sentence states that there is no
23 adverse risk for current and future scenarios using
24 quote "average" end quote exposure concentrations.

25 The next scenario indicates in the same

1 item says that, in fact, there are exceedances in
2 both the federal and state guidelines. They do
3 exist.

4 Finally, the last sentence says that the
5 ecological risks exist and that chemical
6 concentrations in the soil above the groundwater
7 exceed threshold values.

8 Once again, we should at least show the
9 connection and the relationship with the contaminated
10 groundwater at this AOC and with the SD-5 plume and
11 how that ties in with the SD-5 north treatment system
12 and provide a more detailed plan of the locations and
13 the depths in all that comprise the 9,400 cubic yards
14 of estimated contaminated soil that's being excavated
15 from the site. Thank you.

16 MR. WHITAKER: Thanks, Greg. Any other
17 comments or questions that people would like to get
18 on the public record part of the Record of Decision?

19 (No response.)

20 MR. WHITAKER: If there are no further oral
21 comments to be made, then I shall now close the
22 official record for oral testimony. The record is
23 now closed for oral testimony.

24 Please note that you can still provide
25 written comments to us through December 15th. Thank

1 you for coming this evening.

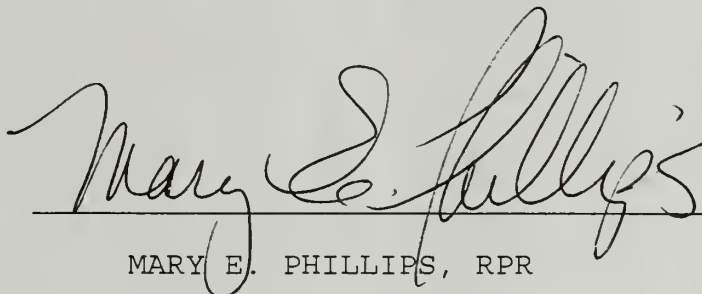
2 Once again, I'd like to extend the offer if
3 you have questions we'll hang around and try to
4 answer them. Thank you.

5 (Whereupon the hearing concluded
6 at 8:30 p.m.)

C E R T I F I C A T E

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2
3 I, MARY E. PHILLIPS, Registered Professional
4 Reporter, do hereby certify that the foregoing transcript,
5 pages 2 through 15 inclusive, was taken by me
6 stenographically and thereafter under my direction was
7 reduced to typewriting and is a true record of the testimony
8 of the proceedings to the best of my ability.
9

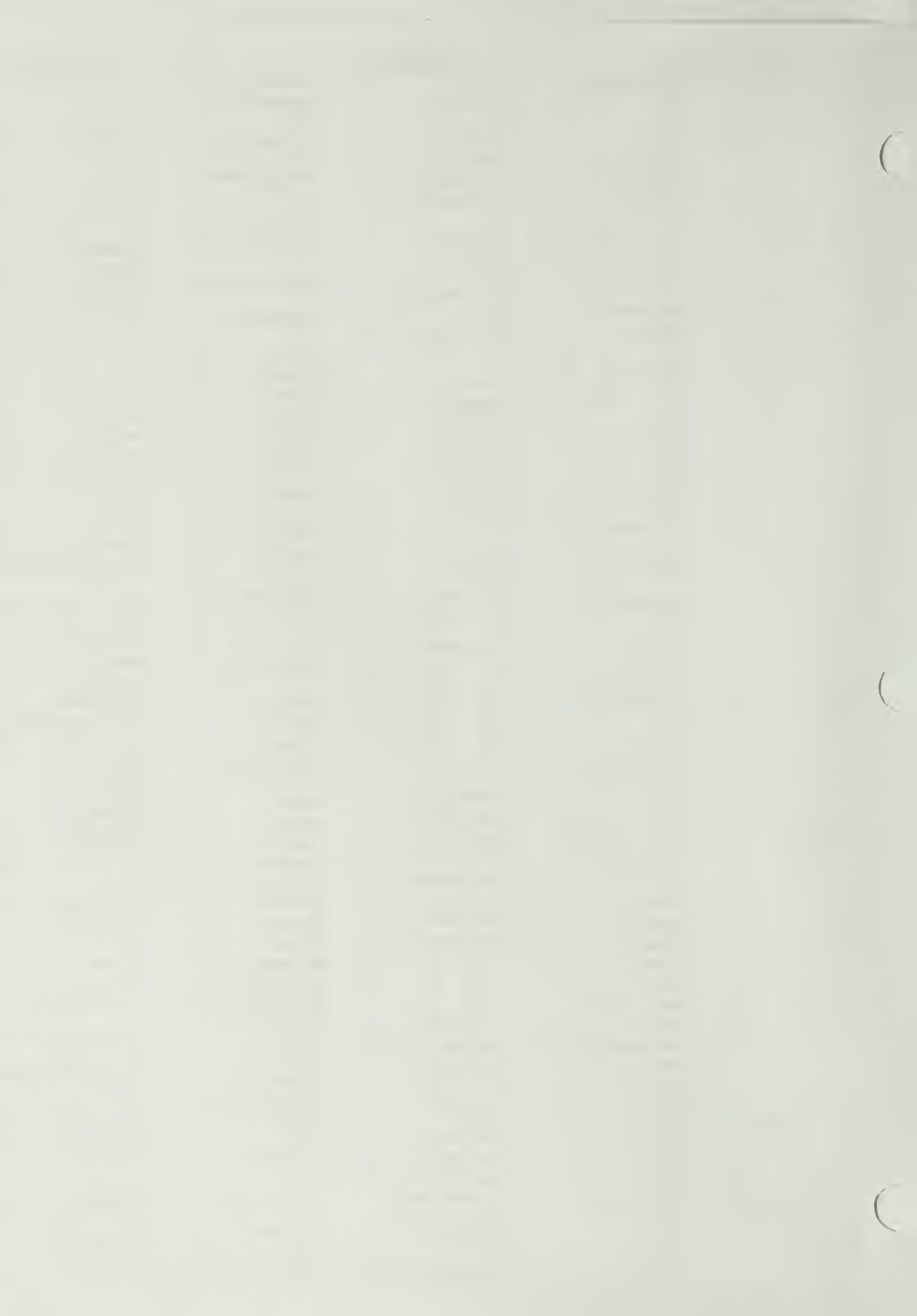
10 Dated at Bourne, Massachusetts, this 11th
11 day of December, 1997.
12

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16 MARY E. PHILLIPS, RPR
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MARY E. PHILLIPS



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1 -----x
 2 :
 3 :
 4 In Re: Public Hearing for Six AOC's:
 5 :
 6 -----x

9 Public Hearing for Six AOC's
 10 Mashpee High School
 11 Mashpee, MA 02649
 12 December 2, 1997

20 MARY E. PHILLIPS
 21 Registered Professional Reporter
 22 P.O. Box 160
 23 Sagamore Beach, MA 02562-0160
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 25

COPY

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3	Jerry Whitaker	AFCEE/MMR
4	Lee Perry	AFCEE/MMR
5	Chuck Rossoll	ABB-ES
6	Stanley Reed	ABB-ES
7	Walter Zorn	HAZWRAP
8	Jim Snyder	AFCEE/MMR
9	Cathy Kiley	MADEP
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14	Carol Keating	EPA
15	Philip Elia	49 Pond Circle, Mashpee
16	Kathleen Elia	49 Pond Circle, Mashpee
17	Sara Corner	Optech
18	Jon Luther	Optech
19	Diane Bryant	Optech
20	Greg Taylor	Mashpee DEP
21	John Palmieri	Mashpee

1 PROCEEDINGS
 2 (December 2, 1997, 8:13 p.m.)
 3 MR. WHITAKER: Okay. I'm going to be
 4 starting off the formal public hearing by reading a
 5 statement. It should take about four or five
 6 minutes.
 7 After that I'll be asking you to come to
 8 the microphone, state your name and the town you're
 9 from and let us know what your concerns are.
 10 So with that I'd like to start the public
 11 hearing. Good evening. My name is Jerry Whitaker
 12 and I'm a public affairs specialist for the
 13 Installation Restoration Program at the Massachusetts
 14 Military Reservation.
 15 I will be the Hearing Officer this
 16 evening.
 17 The purpose of tonight's hearing is to
 18 accept oral comments, oral testimony and written
 19 comments on the Proposed Plan to clean up six areas
 20 of contamination at the Massachusetts Military
 21 Reservation.
 22 The six areas of contamination are
 23 comprised of 13 separate sites that have been grouped
 24 into six operable units. These sites are: Fire
 25 fighter training Area 2 and Landfill 2.

1 The petroleum fuel storage area, which
 2 consists of fuel spills 10 and 11.
 3 Storm drain 2 and fuel spills 6 and 8.
 4 Storm drain 3, fire fighter training area 3
 5 and coal yard 4.
 6 Storm drain 4 and storm drain 5. And fuel
 7 spill 5.
 8 Earlier this evening you heard a synopsis
 9 of our plans to clean these sites. On November 13th
 10 we began a 30-day formal public comments period to
 11 solicit public input on the Proposed Plan to clean
 12 these sites.
 13 This public comment period ends on
 14 December 15th. Tonight the Air Force Center for
 15 Environmental Excellence is hosting a public hearing
 16 which is being transcribed.
 17 All comments and testimony that are given
 18 here tonight will be transcribed verbatim and become
 19 part of the official record on this project.
 20 Each and every comment will be responded to
 21 in the form of a Responsiveness Summary. This
 22 document categorizes and summarizes all of the
 23 comments we receive through the duration of the
 24 public comment period.
 25 The Responsiveness Summary will be part of

1 the Record of Decision, or ROD as it's commonly
 2 called, that will be issued at a later date.
 3 The ROD specifies the actions to be taken
 4 to clean the sites and is signed by the parties to
 5 the Federal Facilities Agreement. These parties
 6 include the Air Force Center for Environmental
 7 Excellence and the U.S. Environmental Protection
 8 Agency.
 9 There are copies of the Proposed Plan
 10 located outside in the hallway as well as up here on
 11 the table.
 12 In addition, when the transcript of
 13 tonight's meeting is finalized, it will be placed
 14 into the main libraries of Falmouth, Mashpee,
 15 Sandwich, Bourne, and the on-base U.S. Coast Guard
 16 library. The Proposed Plan is also on file in those
 17 libraries.
 18 Tonight's hearing is different than the
 19 informational meeting held earlier this evening.
 20 Public meetings are interactive. A public meeting is
 21 exclusively an opportunity for the Air Force Center
 22 for Environmental Excellence, the U.S. Environmental
 23 Protection Agency and the Massachusetts Department of
 24 Environmental Protection to receive your oral
 25 comments. We will not be responding to your comments

1 during the hearing.
 2 Everyone who wishes to submit oral comments
 3 must speak into the microphone. Please state your
 4 first and last name and town of residence.
 5 As I mentioned earlier, the comments
 6 submitted tonight will be responded to in the
 7 Responsiveness Summary.
 8 Written comments can be given to me any
 9 time tonight or through December 15th. If mailing
 10 comments, please ensure that the envelope is
 11 postmarked by December 15th and mailed to the proper
 12 address.
 13 I've included a handout which is located in
 14 the hallway with a property mailing address as well
 15 as our fax number, my e-mail address and the
 16 Massachusetts Military Reservation Installation
 17 Restoration Program web site for those of you who
 18 would like to submit comments through those
 19 channels.
 20 It's now time to open the official record
 21 for oral comment on the Proposed Plan to clean up six
 22 areas of contamination at the Massachusetts Military
 23 Reservation.
 24 Please keep your comments exclusively to
 25 this Proposed Plan.

1 If you have questions about other issues, I
 2 would ask that you approach me after the hearing is
 3 over or at a later date.
 4 During any of the comments you make, we may
 5 ask for clarification if we don't understand what the
 6 comment is.
 7 That is the only interaction that we will
 8 have until the official record is closed.
 9 With that said, the floor is open for oral
 10 comments. If anyone has any comments, please step up
 11 to the microphone, give us your name, the town you
 12 reside and then your comments.
 13 MR. PALMIERI: My name is John Palmieri,
 14 town of Mashpee. I'd like to make a couple of
 15 comments relative to excavation and asphalt batching
 16 that's been proposed for this area.
 17 First of all, I'm concerned about the PCB's
 18 that have been found in at least two locations in the
 19 soil. As everything I understand about PCB's is that
 20 it's a very stable compound and does not break down
 21 easily.
 22 I'm concerned that by imbedding it in the
 23 asphalt is not a complete solution. I believe in
 24 time the asphalt may actually break down and the
 25 PCB's may still remain and are subject to further

1 leaching into the ground.
 2 I'd recommend that you consider an
 3 alternate by gathering the PCB contaminations and
 4 removing it completely from the base and obviously
 5 away from the aquifer.
 6 The second comment would be relative to
 7 where you're placing the asphalt batching.
 8 I'd suggest you consider a proposal to
 9 monitor the whole process, after, long after you put
 10 it in the soil, you never know if it might leach
 11 again.
 12 Although you believe it is a consistent
 13 process, I'd be concerned about batch-to-batch
 14 day-to-day processing of this material.
 15 You might have break down and not even be
 16 aware of it during your processing.
 17 And I'd suggest rather than putting it on
 18 the roads which would spread it across the entire
 19 base, you localize it in one spot, and furthermore
 20 you put monitors in the ground before you put this
 21 material down and that these monitors then could be
 22 used to monitor subsequent leaching five, 10, 20, 50
 23 years down the road to see that the material is there
 24 and is not leaking into the aquifer. Thank you.
 25 MR. WHITAKER: Thank you, John. Any other

1 comments?
 2 MR. TAYLOR: My name is Greg Taylor from
 3 the town of Mashpee.
 4 First initial comments related to all six
 5 areas is that it appears that in an effort to
 6 simplify the plan for public consumption AFCEE has
 7 stripped the document that they've provided us of the
 8 necessary details in order to make an informed
 9 decision on any of the actions that are going on.
 10 My questions on each one will relate in
 11 part to the information that isn't readily available
 12 without somehow finding other documents to go
 13 through.
 14 It's also disturbing to see that in each of
 15 the six areas, AOC's, that AFCEE has dismissed the
 16 existing ecological assessment because it's too
 17 conservative. If the ERA was done correctly the first
 18 time or wasn't done correctly the first time
 19 then it should be done again.
 20 On the AOC FTA-2/LF-2, please identify the
 21 primary chemicals of concern for this site. Please
 22 identify the quote "several chemicals" with the
 23 potential to migrate to groundwater where identified
 24 were above threshold concentrations, and please
 25 provide their concentrations.

1 Please identify the inorganic and fuel
 2 related COC's encountered in the groundwater.
 3 Please provide the SERGOU clean up plan and
 4 explain how the contaminated groundwater associated
 5 with this site is addressed in that plan.
 6 What is the depth to groundwater at this
 7 site?
 8 What subsurface soils are contributing to
 9 the groundwater contamination above or below the
 10 groundwater table of both? There's only discussion
 11 about in or above the groundwater table. Aren't
 12 these contaminants underneath the groundwater also?
 13 Please provide a conceptual layout of the
 14 biosparging that's proposed in this area.
 15 Please define what AFCEE intends to do to
 16 assure that quote "a prudent design" end quote will
 17 minimize interactions in the two systems. The second
 18 area SD-2, FS-6 and FS-8, please provide a summary of
 19 the COC's and the range of concentrations in this
 20 area.
 21 What is AFCEE's point in discussing average
 22 quote "average" end quote site concentrations versus
 23 maximum concentrations along the drainage ditch?
 24 What are the COC's creating the
 25 unacceptable risk? How many sample locations are

1 there in the ditch? And over what total length?
 2 What are the COC's driving the adverse
 3 ecological risk in the ditch?
 4 What are the receptors, the ecological
 5 receptors?
 6 What does AFCEE mean by quote "non-site
 7 related groundwater" end quote contamination beneath
 8 the AOC?
 9 And please explain the preferred
 10 alternative, how it addresses the concerns of
 11 contamination encountered and treats the contaminants
 12 so that they will not pose a future risk.
 13 Third area AOC SD-3/FTA-3/CY-4. We had
 14 some information -- I'd like to once again ask why
 15 doesn't the Department of Defense know that the
 16 earlier work on this site removed all of the ash?
 17 Is there a post-excavation report
 18 documenting this? What leads us to believe that
 19 additional work needs to be done here?
 20 Is there an ecological risk here or not?
 21 There's said to be a potential one still. How are we
 22 resolving that with enough secondary testing to
 23 assure that we haven't missed something? It appears
 24 that in the closure something was missed. And now
 25 how do we know we're not missing something again?

1 In the AOC SD-4 what are the fuel-related
 2 inorganic and inorganic COC's in this --
 3 concentrations in this medium?
 4 Once again the plan indicates that average
 5 contaminated concentrations did not result in adverse
 6 health risk.
 7 Did the maximum concentrations exceed
 8 levels for human health risk? If so, what were the
 9 compounds and what were the concentrations? Is there
 10 an adverse ecological risk associated with this AOC?
 11 Once again AFCEE essentially dismisses the
 12 value of the ecological risk assessment because of
 13 quote "conservative assumptions" end quote during
 14 calculations. If this was not a reasonable
 15 ecological risk assessment then one should be done.
 16 Why hasn't one been done that's acceptable?
 17 There should be a site plan that shows in
 18 better detail the excavation that's being intended in
 19 this area. On the AOC SD-5 and FS-5, once again the
 20 discussion on human risk associated with this AOC is
 21 confusing. In fact, it's misleading.
 22 The first sentence states that there is no
 23 adverse risk for current and future scenarios using
 24 quote "average" end quote exposure concentrations.
 25 The next scenario indicates in the same

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1 item says that, in fact, there are exceedances in
2 both the federal and state guidelines. They do
3 exist.

4 Finally, the last sentence says that the
5 ecological risks exist and that chemical
6 concentrations in the soil above the groundwater
7 exceed threshold values.

8 Once again, we should at least show the
9 connection and the relationship with the contaminated
10 groundwater at this AOC and with the SD-5 plume and
11 how that ties in with the SD-5 north treatment system
12 and provide a more detailed plan of the locations and
13 the depths in all that comprise the 9,400 cubic yards
14 of estimated contaminated soil that's being excavated
15 from the site. Thank you.

16 MR. WHITAKER: Thanks, Greg. Any other
17 comments or questions that people would like to get
18 on the public record part of the Record of Decision?
19 (No response.)

20 MR. WHITAKER: If there are no further oral
21 comments to be made, then I shall now close the
22 official record for oral testimony. The record is
23 now closed for oral testimony.

24 Please note that you can still provide
25 written comments to us through December 15th. Thank

Page 14

1 you for coming this evening.
2 Once again, I'd like to extend the offer if
3 you have questions we'll hang around and try to
4 answer them. Thank you.
5 (Whereupon the hearing concluded
6 at 8:30 p.m.)
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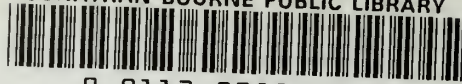
1 CERTIFICATE

2 I, MARY E. PHILLIPS, Registered Professional
3 Reporter, do hereby certify that the foregoing transcript,
4 pages 2 through 15 inclusive, was taken by me
5 stenographically and thereafter under my direction was
6 reduced to typewriting and is a true record of the testimony
7 of the proceedings to the best of my ability.
8

9
10 Dated at Bourne, Massachusetts, this 11th
11 day of December, 1997.
12
13
14
15

16 _____
17 MARY E. PHILLIPS, RPR
18
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